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(71) Applicant  
Anthony D. Myers,  
"Glenhaven", 4, Hillcrest  
Gardens, Finchley N3

(72) Inventor  
Anthony D. Myers

(74) Agents  
F. J. Cleveland &  
Company,  
40-42 Chancery Lane,  
London, WC2A 1PL

(54) Backrest for Motorcycle

(57) A backrest 4 for a two-seat motorcycle 1 is carried by a frame 5 pivoted to a rear extension 2 of the chassis of the motorcycle, e.g. through a carrier box 3, such that the backrest 4 is movable between a first position in which it supports the back of the rider and a second position wherein it

allows a passenger to mount the rearseat and may support the back of the passenger. A tongue 6 rests on the passenger seat when the backrest is in the first position, and a clip 8 cooperates with the frame 5 to hold the back rest in the second position. The frame 5 may alternatively be partially telescopic such that backrest 4 may be made to lie on top of the carrier box when not in use.

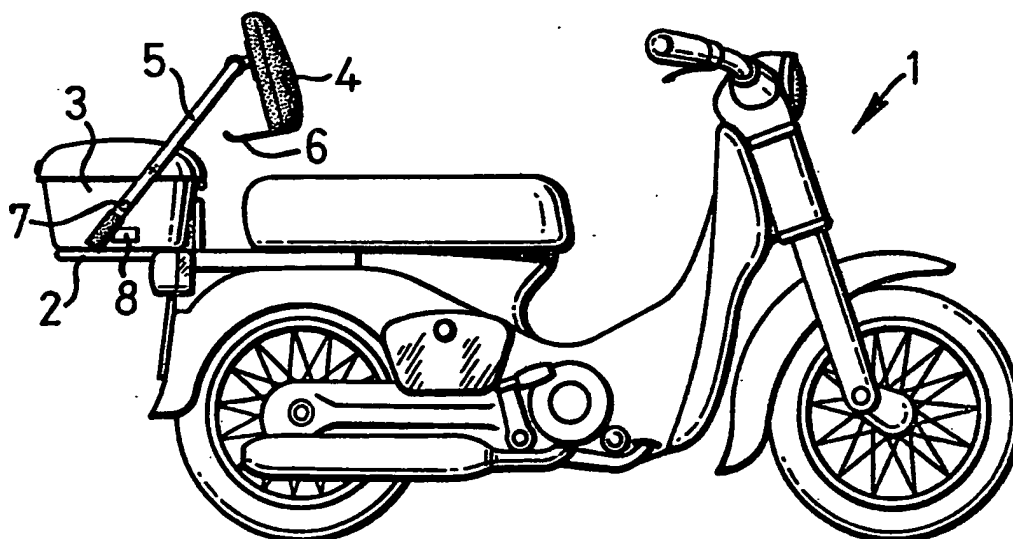


FIG.1

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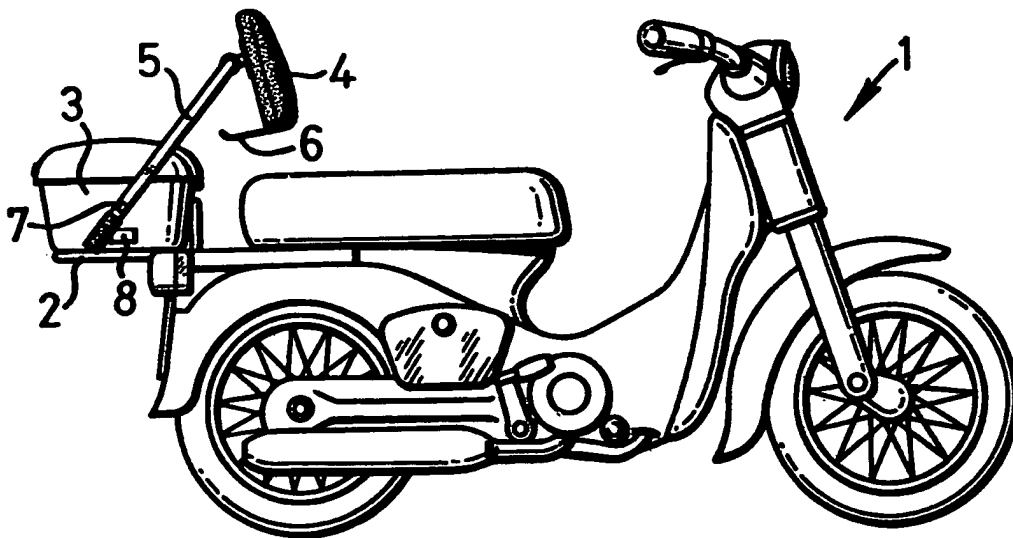


FIG. 1

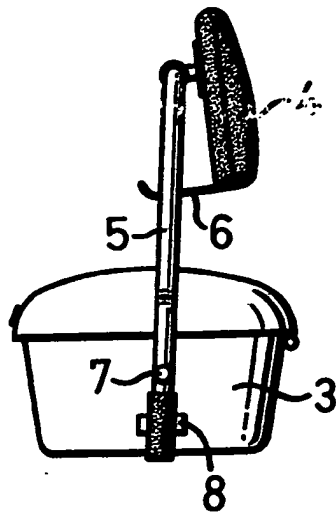


FIG. 2

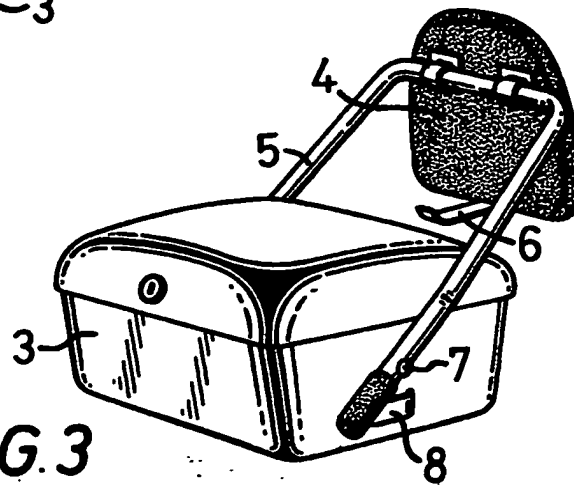


FIG. 3

## SPECIFICATION

## Backrest for Motorcycle

The present invention relates to a backrest for use on a two-seat motorcycle and to a backrest movable to support either a pillion passenger or a rider of a motorcycle as desired.

It has been known to provide backrests for pillion passengers on motorcycles. It has not hitherto, however, been thought practical to provide a backrest for a rider because of the interference that this would cause when a pillion passenger was carried.

The present invention provides, therefore, a two-seat motorcycle having a backrest for the forward seat, said backrest being movable from a first position wherein it is adapted to support the rider, to a second position clear of said seats to allow a pillion passenger to use the pillion seat.

In another aspect the invention provides a two-seat motorcycle having a backrest associated with the seat, said backrest being movable to a first position wherein it supports the back of a rider to a second position wherein it supports the back of a pillion passenger.

In a further aspect the invention provides an assembly of a carrier box for a two-seat motorcycle and a backrest for a rider integral therewith, said backrest being movable from a first position wherein it is adapted to support a rider, to a second position clear of said seats to allow the pillion passenger to use the pillion seat.

In a preferred embodiment the backrest is provided with a support frame attached to the rear chassis of the motorcycle, said support frame being movable pivotally from the first to the second positions.

The support frame may be formed of a substantially U-shaped tubular member pivoted toward the free ends thereof, and may carry a padded backrest on the bridge piece of the U-shaped member. The support frame may comprise readily releasable means for locking the frame and/or the backrest in a desired position. The support frame when formed compositely with a carrier box is preferably so pivotally arranged that when not in use in either the first or second positions it may be folded such that the rear face of the backrest overlies a portion of the carrier box; means being provided to lock the backrest and the portion of the carrier box into readily releasable engagement.

As an alternative to the pivoting of the frame, the frame may be telescopic if desired.

One embodiment of the invention will now be described by way of illustration only with reference to the accompanying drawings wherein:

Figure 1 is a side elevation of a two-seat motorcycle showing the invention,

Figure 2 shows a carrier and backrest assembly positioned to support a pillion passenger and,

Figure 3 is a view of an assembly according to Figure 2 but wherein the backrest and support frame have been moved toward the horizontal.

A motorcycle 1 is provided toward the rear of

the chassis thereof with a parcel carrier 2 of the standard type. The parcel carrier 2 is securely bolted to the chassis and bears on its upper surface a carrier box 3 formed of fibre-glass. The carrier box 3 is provided on its internal lower faces with a metal support web (not shown) which serves both to attach the carrier box 3 to the carrier 2 and to support the backrest assembly. Thus, in this particular embodiment the metal web terminates at its uppermost portion in a pair of pivot pins 7 extending perpendicular to the axis of the motorcycle and approximately parallel to the ground.

A backrest 4 is formed of a plastics moulding which may be overlaid by a padded material for additional comfort. The backrest 4 terminates in its lower edge with a rearwardly directed tongue 6 which is adapted to rest on the seat in use whilst supporting the back of a rider. Attached to the rear of the backrest 4 is a substantially U-shaped tubular support frame 5 pierced toward its remote free ends by a pair of apertures which respectively locate upon the pivot pin 7. The support frame 5 is held on the pivot pin 7 by a pair of lock nuts, the support frame 5 is either made of a weatherproof material or where made of mild steel is galvanised, plastic coated or chromium plated.

A spring clip 8 is positioned on the carrier box 3 within the arc described by the portion of the support 5 extending beyond the pivot pin 7 in use. Spring clip 8 is rearwardly directed and is fixed at its one end through the carrier box onto the metal support web. The backrest 4 is supported on the support 5 such that it may be readily positioned at a desired angle.

In use the backrest 4 is positioned such that the tongue 6 rests upon the passenger seat of the motorcycle. In this position (the down position) the backrest 4 may be utilized to support the back of the motorcycle rider. When it is desired to carry a pillion passenger the support frame 5 is moved through an arc so as to adopt the position shown in Figure 2 the remote ends of the support frame 5 locating beneath the spring clip 8 which thus acts to prevent further rearward movement of the support frame 5 and hold the backrest in position in the absence of the pillion passenger.

In many designs of motorcycle it is necessary to lift the motorcycle seat in order to gain access inter alia to the petrol tank. It will be readily seen that the arrangement as shown in Figure 2 provides, in addition to a support for a pillion passenger, a facile means of moving the backrest while refueling the motorcycle.

In another form of the invention the support frame 5 may be partially telescopic and include means for locking the telescopic frame at a desired point. In such an arrangement particularly it is convenient to arrange that the underside of the backrest is adapted to co-operate with the top of the carrier box 3 such that when the backrest is not in use it may be conveniently stored by clipping the same onto the top of the carrier box 3.

The device of the present invention has been found particularly efficacious in the support of a riders back during long journeys, particularly those riders with orthopaedic problems.

## 5 Claims

10 1. A two-seat motorcycle having a backrest for the forward seat, said backrest being movable from a first position wherein it is adapted to support the rider, to a second position clear of said seats to allow a pillion passenger to use the pillion seat.

15 2. A two-seat motorcycle having a backrest associated with the seat, said backrest being movable from a first position wherein it supports the back of a rider to a second position wherein it supports the back of a pillion passenger.

3. A motorcycle according to either of claims 1 or 2 wherein said backrest comprises a support pivotally attached to said motorcycle.

20 4. A motorcycle according to claim 3 wherein said support is mounted on an extension of the chassis to the rear of the motorcycle seats.

25 5. An assembly of a carrier box for a two-seat motorcycle and a backrest for a front seat rider, said backrest being movable from a first position wherein it is adapted to support said rider to a second position clear of said seats to allow a pillion passenger to use the pillion seat.

30 6. An assembly according to claim 5 wherein the rear face of said backrest is adapted to overlie a portion of said carrier box when the backrest is not in use such that the carrier box and the backrest may be locked together for ease of carriage.

35 7. A motorcycle comprising a backrest substantially as hereinbefore set forth.

40 8. A motorcycle comprising a backrest substantially as hereinbefore set forth with reference to and as illustrated in, the accompanying drawings.

9. An assembly of a carrier box for a two-seat motorcycle and a backrest for a front seat rider, substantially as hereinbefore set forth with reference to and as illustrated in the

45 accompanying drawings.